

REMARKS/ARGUMENTS

The undersigned thanks the Examiner for granting an in-person interview to the Applicant. Per the agreement reached during the interview, independent claim 10 has been amended to further recite the features of claims 2, 4 and 14. In addition, as was proposed, solely in order to expedite prosecution, further clarifications have been made to the claim language to further clarify the subject matter regarded as the invention. It is respectfully submitted that all pending claims are now in condition for early allowance. The Applicant, however, reserves the right to pursue the claims of original scope.

The Examiner is also thanked for his thorough search and clear remarks. In the Final Office Action, the Examiner has rejected claims under 35 U.S.C. 102(a) as being anticipated by "Thread-Specific Heaps for Multi-threaded programs, Bjarne Steensgaard, Microsoft Research" ("*Steensgaard*"). This rejection is traversed below.

Independent claim 10 pertains to a method for creating Java objects in a heap. As such, claim 10 recites translating a Java Bytecode into one or more commands that can operate to allocate a Java object in a portion of heap that is designated for that object, and executing the one or more commands to create the object in the designated portion of the heap. It is noted that *Steensgaard* states that instead of having a single "shared" heap section, a set of "shared" heap sections may be used by a memory manager, as well as dividing the thread-specific sections into multiple heap sections (*Steensgaard*, Section 5). However, it respectfully submitted that *Steensgaard* does NOT teach or suggest translating a Java Bytecode into one or more commands that can operate to allocate a Java object in a heap portion that is designated for that object. Accordingly, it is respectfully submitted that claim 10 and its dependent claims are patentable over *Steensgaard* for at least this reason. It should also be noted that the dependent claims recites several additional features that render them patentable over *Steensgaard* for additional reasons. These additional features, for example, include marking and compiling features respectively recited in claims 11 and 14. Contrary to the Examiner's assertion, it is respectfully submitted that *Steensgaard* does NOT teach or suggest these features.

Furthermore, it is respectfully submitted that *Steensgaard* does NOT teach or suggest a Java heap portion that is designated for storing objects that do not reference other objects (claim 8).


It is also noted that *Steensgaard* states: if it can be pre-determined that some objects allocated by a given thread never escape that thread, these objects can be allocated in a section of the heap reserved for that thread. *Steensgaard* also states that another section of the heap can be used for objects that are shared among threads (*Steensgaard*, section 1, 2nd paragraph).

However, it is respectfully submitted that allocating objects in a section of a heap which is reserved for a thread, does not teach a plurality of Java heap portions that are each designated to store objects associated with a class name (Claim 10). It is also noted that *Steensgaard* states that, if possible, small objects are allocated from a relevant heap section's last chunk (if any) of memory (*Steensgaard*, Section 3.1). However, it is respectfully submitted that allocating small objects from a relevant heap section's last chunk does not teach or suggest a plurality of heap portions that are each designated to store objects of the same size (Claim 4).

Based on the foregoing, it is submitted that claims are patentably distinct over the cited art of record. Additional limitations recited in the independent claims or the dependent claims are not further discussed because the limitations discussed above are sufficient to distinguish the claimed invention from the cited art. Accordingly, Applicant believes that all pending claims are allowable and respectfully requests a Notice of Allowance for this application from the Examiner.

Applicants hereby petition for an extension of time which may be required to maintain the pendency of this case, and any required fee for such extension or any further fee required in connection with the filing of this Amendment is to be charged to Deposit Account No. 500388 (Order No. SUN1P819). Should the Examiner believe that a telephone conference would expedite the prosecution of this application, the undersigned can be reached at the telephone number set out below.

Respectfully submitted,
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